

AMENDED IN SENATE MAY 28, 2009

AMENDED IN SENATE APRIL 23, 2009

AMENDED IN SENATE APRIL 13, 2009

## SENATE BILL

**No. 747**

**Introduced by Senator Romero  
(Coauthor: Senator Hancock)**

February 27, 2009

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An act to add and repeal Section 8157 of the Education Code, relating to career technical education.

### LEGISLATIVE COUNSEL'S DIGEST

SB 747, as amended, Romero. Career technical education: pilot preapprentice aerospace machining program.

Existing law establishes the Health Science and Medical Technology Project, administered by the State Department of Education to provide competitive grant funds to California public schools to enhance existing or establish new health-related career pathway programs.

This bill would state findings and declarations of the Legislature regarding California's aerospace workforce and trends in California's high schools. ~~This~~ The bill would create a pilot preapprentice aerospace machining program, *administered by the California Labor and Workforce Development Agency*, and implemented by the California Community Colleges system, to provide career technical education to high school pupils in the form of machining and related curriculum that can be applied to various manufacturing industries in California, including, but not limited to, aerospace manufacturing, as specified. The program would be funded by a combination of *private nonprofit* and public ~~and private~~ funds that would be deposited into the Machinist

Investment Fund, which would be created by this bill. *The bill would provide that implementation of the program would be contingent upon receipt of sufficient federal funding.* Grants would be competitively awarded to community colleges based upon specified criteria, including their ability to address the existing local and regional industry manufacturing needs, while providing meaningful career technical education opportunities for at-risk youth. ~~This~~ *The* bill would require the California Community Colleges system to develop preapprenticeship curriculum in aerospace technology, and machining technology generally. ~~This~~ *The* bill would provide that its provisions would remain in effect until January 1, 2015.

Vote: majority. Appropriation: no. Fiscal committee: yes.  
State-mandated local program: no.

*The people of the State of California do enact as follows:*

- 1     SECTION 1. The Legislature hereby finds and declares all of
- 2     the following:
- 3     (a) Despite the departure of several companies since the military
- 4     base closures of the early 1990s, the aerospace industry remains
- 5     a vital component of California's economy, representing at least
- 6     370,000 jobs statewide and a minimum of thirty-two billion dollars
- 7     (\$32,000,000,000) annually in gross domestic product.
- 8     (b) There will be a dearth of skilled machinists and technicians
- 9     to work in the aerospace industry as the baby boomers begin to
- 10    retire over the next decade.
- 11    (c) The aerospace industry is currently addressing its labor needs
- 12    by luring skilled labor away from competing companies.
- 13    (d) The highly skilled labor sought by the aerospace industry
- 14    is represented by a finite, aging pool of employees who, under
- 15    current conditions, will not be readily replaced by younger workers.
- 16    (e) The continued growth of the aerospace industry is pivotal
- 17    to California's future prosperity.
- 18    (f) Unless the Legislature acts to address labor workforce needs
- 19    in this sector, the aerospace industry will continue to leave
- 20    California or import a far greater proportion of foreign labor, in
- 21    either case, causing significant damage to the state's economy.
- 22    (g) California's high schools are struggling with a dropout rate
- 23    of 21 percent.

1 (h) A significant factor in California's dropout rate is the  
2 existence of curriculum that does not engage pupils with some  
3 immediate, real-world application.

4 (i) Pupils who drop out of high school are often unable to find  
5 suitable entry-level employment and have little chance of  
6 continuing on to higher education, and there is a strong chance  
7 that they will ultimately join California's prison population, given  
8 the statistic that at least two-thirds of the current inmate population  
9 does not possess a high school diploma.

10 (j) The dropout rate is likely to hold, and possibly worsen, unless  
11 the state acts to provide hands-on high school curriculum with  
12 cross-over mathematics and science applications, that also provides  
13 an avenue to both higher education in related disciplines, and to  
14 skilled, high-wage employment.

15 SEC. 2. Section 8157 is added to the Education Code, to read:

16 8157. (a) There is hereby established a pilot preapprentice  
17 aerospace machining program that shall provide career technical  
18 education to high school pupils in the form of machining and  
19 related curriculum that can be applied to various manufacturing  
20 industries in California, including, but not limited to, aerospace  
21 manufacturing. The curriculum shall include, but not be limited  
22 to, the following green technologies in aerospace manufacturing:

23 (1) Use of computers to assist in metalworking; to eliminate  
24 waste of aluminum, titanium, and other costly strategic metals in  
25 the manufacturing process.

26 (2) Training in the machining of lighter, strategic metals,  
27 including titanium and composites, to reduce weight and increase  
28 aircraft fuel efficiency.

29 (3) Training in the fabrication of more energy-efficient aircraft  
30 ventilation, heating, and cooling systems.

31 (b) The program shall be funded by a combination of ~~public~~  
32 ~~and private~~ *private nonprofit and public* funds, specifically federal  
33 funds made available to the states as part of the ~~2009 stimulus~~  
34 ~~package, as well as private nonprofit funds~~ *American Recovery*  
35 *and Reinvestment Act of 2009* . All funds appropriated for the  
36 purposes of this program shall be deposited into the Machinist  
37 Investment Fund, which is hereby created.

38 (c) *The pilot program and the Machinists Investment Fund shall*  
39 *be administered by the California Labor and Workforce*  
40 *Development Agency.*

1     (d) *Implementation of the pilot program established by this*  
2     *section shall be contingent upon receipt of sufficient federal*  
3     *funding.*

4     (e) *Nothing in this section shall be construed to impose a*  
5     *mandate on local workforce investment boards with regard to how*  
6     *they will spend Workforce Investment Act funds, including funds*  
7     *made available to them through the American Recovery and*  
8     *Reinvestment Act.*

9     (f) *It is the intent of the Legislature that the pilot program*  
10    *established by this section shall have as its goal the development*  
11    *of an industry-based sector strategy to address labor needs in the*  
12    *manufacturing industry generally and in the aerospace industry*  
13    *in particular, specifically the need for trained machinists, and that*  
14    *the Labor and Workforce Development Agency shall focus on*  
15    *efforts to assist in this strategy.*

16    (g) *The California Workforce Investment Board is encouraged,*  
17    *in collaboration with local workforce investment boards, industry,*  
18    *and community colleges, to seek and apply for funds for related*  
19    *industry-based sector strategies.*

20    ~~(e)~~

21    (h) Community colleges, in partnership with local, workforce  
22    investment boards, employers, and high schools, shall apply for  
23    grants that shall be competitively awarded based upon a number  
24    of criteria, including, but not limited to:

25    (1) Likelihood of meeting the objectives of the program,  
26    specifically, ability to address the existing local and regional  
27    industry manufacturing needs, while providing meaningful career  
28    technical education opportunities for at-risk youth that are likely  
29    to lead to employment after participation and to position pupils  
30    for admission to additional higher education in a related field.

31    (2) Whether the adopted preapprenticeship curriculum in  
32    aerospace technology, and machining technology generally,  
33    conforms to the curriculum developed by the California  
34    Community Colleges system pursuant to subdivision (c).

35    (3) Inclusion of an aggressive outreach plan demonstrating the  
36    degree to which the pupils targeted to receive instruction may be  
37    considered at risk, based upon factors such as prior academic  
38    achievement, socioeconomic background, and school disciplinary  
39    record. Special weight shall be given to the specific media  
40    employed to reach the target pupil population.

1 (4) Evidence that the application will advance an industry sector  
2 strategy for addressing current and future labor needs, as well as  
3 provide career paths for potential employees in the manufacturing  
4 industry consistent with Division 8 (commencing with Section  
5 15000) of the Unemployment Insurance Code.

6 (5) Evidence that the industry sector will benefit from the  
7 regional economy in which it is located.

8 ~~(d)~~

9 (i) The program shall be implemented by the California  
10 Community Colleges system which shall develop preapprenticeship  
11 curriculum in aerospace technology, and machining technology  
12 generally. It shall also identify the appropriate community college  
13 campuses for implementation of the program based upon criteria  
14 which shall include, but not be limited to, all of the following:

15 (1) The proximity to aerospace and other manufacturers with  
16 machining labor needs.

17 (2) The ability of the community college campus or of a regional  
18 occupational-centers center to provide sufficient in-house expertise  
19 and laboratory facilities to teach the required curriculum.

20 (3) The willingness and availability of a local machinists union  
21 to actively participate in program-related activities, including, but  
22 not limited to, technical assistance for curriculum development,  
23 mentoring, and recruiting pupils as future journeymen upon  
24 completion of the preapprentice curriculum.

25 (4) Whether there are opportunities to build on existing  
26 partnerships with local high schools in the region.

27 ~~(e)~~

28 (j) Community college campuses selected for receipt of a  
29 competitive grant, in consultation with area high schools, shall  
30 identify the location at which instruction shall occur, whether on  
31 the high school campus, at a regional occupation center, or at a  
32 community college. Factors such as availability of curriculum,  
33 instructors, lab facilities, and transportation may be considered.

34 ~~(f)~~

35 (k) This section shall remain in effect only until January 1, 2015,  
36 and as of that date is repealed, unless a later enacted statute, that  
37 is enacted before January 1, 2015, deletes or extends that date.

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